IMPORTANT

INSTRUCTION BOOK Model 522 Viper 22 Caliber Rimfire Autoloading Rifle

Remington ®



SAFETY RULES AND INFORMATION PAGE 2

IMPORTANT PARTS PAGE 4

MODEL 522 VIPER AUTOLOADING RIMFIRE RIFLE

Congratulations on your choice of a Remington. With proper care, it should give you many years of dependable use and enjoyment.

For best results, we recommend that you use Remington Ammunition - the ammunition used in factory testing your fire-



This picture shows the main parts of the REMINGTON MODEL 522 VIPER AUTOLOADING RIMFIRE RIFLE. The picture will aid in understanding the instructions in this book.



This picture shows the parts of the ammunition.

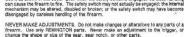
SAFETY RULES

WARNING

READ THESE BASIC SAFETY RULES. Learn how to handle your finarm safety. Fallure to read. understand and obey these rules can result in serious personal injuries. Only you can prevent accidents.



KNOW YOUR FIREARM. To use it correctly and safely, read and follow the instructions in the enclosed firearm safety booklet and this instruction book. Cooles are available free on request from Reminaton Arms Company, Inc. TREAT EVERY FIREARM AS IF IT WERE LOADED. Don't rely on the safety switch.



Use it as shown in this book. Even when the safety switch is engaged careless handling NEVER MAKE ADJUSTMENTS. Do not make changes or alterations to any parts of a



change the shape or size of the sear, sear notch, or other parts, MAKE YOURSELF SAFE. Wear eve protection, such as evenlasses, shooting glasses or sunclasses, when shooting. Wear ear protection, such as ear plugs or muffs, when target shooting or plinking. Repeated exposure to shooting noise can cause permanent hearing loss. The rare ruptured case or firearm maifunction may damage hearing or vi-





WATCH YOUR MUZZLE. Always keep the firearm pointed in a safe direction.

SAFETY RULES



NEVER USE THE WRONG AMMUNITION, Only use ammunition that exactly matches the caliber or gauge markings on your firearm. Careless or incorrect handloading is dangerous. Improperly-made handloads may cause the barrel or breach of any hand-held firearm to burst, which can result in service precoral harv.

LOAD YOUR FIREARM SAFELY. Never load a firearm until you are in a location where it is safe to shoot, and you are ready to shoot.

RANGE % TO 5 KNOW YOUR TARGET. Before you pull the trigger, make sure you can see the target clearly, and the path of the builet, slug, or shot charge beyond the target. Never shoot at water, rocks, or any hard euriace. Buildet may glance of such surfaces and cause hjurfes.

KNOW THE RANGE OF YOUR FIREARM. Remember, shotgun pellets can travel 500 yards and shotgun slugs have a range of more than one-half mile. Rimfire buffets can travel more than 11/2 miles. Centerfire buffets can travel up to 5 miles.

IF FIREARM FAILS TO FIRE tiese it pointed in a safe direction, then unload carefully avoiding.



exposure to breach. If finarm fires but report or recoil seems weak, unload and then make sure the barrel is not obstructed.

UNLOAD YOUR FIREARM WHENEVER YOU ARE NOT SHOOTING. Never carry or store a baded finarm in a building or a whole. Unload your finarm before crossing or climbing up or come any obstacle bitt may prevent you from isseepla file control over the finarm, such as a

fallen tree, fence, tree stand, or slippery area.

STORE YOUR FIREARM SAFELY. Keep firearms and ammunition away from children. Lock unloaded firearms and ammunition securely in separate locations.

thoroughly after exposure.



unicaced frearms and ammunoon securely in separate locations.

WARNING: Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammurition may result in exposure to lead, a substance known to cause birth defects, reproductive harm and other serious brivated linker. Have adequate ventilation at all times. Wash handle

IMPORTANT PARTS OF THE FIREARM

THE SAFETY SWITCH

and you do not intend to shoot.

The safety switch on the Model 522 Viper Autoloading Rimfire Rifle is a button located in front of the trigger. See Pictures 5 and 4.

The safety switch provides protection against accidental or unintentional discharge under normal usage when properly encaged and in good working order.

To engage the safety switch, push the button so the RED BAND MARKING CANNOT BE SEEN.

Always engage the safety switch when the fragern is loaded

Never pull the trigger when the safety switch is engaged.

When you are ready to fire the firearm, the magazine must be in place. Press the safety switch so that the RED BAND MARKING IS SHOWING.

Do not touch the trigger while moving the safety switch.

WARNING: The firearm will fire when the trigger is pulled and the RED BAND IS SHOWING.

Even when the safety switch is engaged, careless handling can cause the firearm to fire. See Safety Rules on Page 2.





THE OPERATING HANDLE

The operating handle has two (2) functions:

- It is used to pull the bolt rearward to open the action.

 See Picture 5.
- The operating handle is also used to lock the bolt in the open position.

TO LOCK THE BOLT OPEN:

- Pull the operating handle rearward to open the action.
 While pulling the operating handle rearward push in-
- ward on the operating handle.

 3. The operating handle will seat into the bolt and lock the bolt in the manual open position.



To unlock the bolt, pull outward on the operating handle and

release.

WARNING: When the operating handle is forward and the
bolt is closed, the firearm is ready to be fired.

TO REMOVE THE MAGAZINE:

- Point the firearm in a safe direction.
 Engage the safety switch. RED BAND WILL NOT SHOW.
- 3. Push the magazine latch rearward. See Picture 5.
- Lock the bolt open.
 Ramove the magazine from the firearm.
 - . Check the chamber to make sure it is empty.



Picture 6

WARNING: If you pick the firearm up and the RED firing pin
carrier shows in the operating slot, there may have been a

- malfunction. See Picture 6.

 1. Point the firearm in a safe direction.
- Engage the safety switch, RED BAND WILL NOT SHOW.
- Remove the magazine.
 Pull the operating handle rearward to open the action.
- Lock the bolt open.
 Check the chamber to make sure it is empty.

THE TRIGGER ASSEMBLY

Pulling the trigger fires the firearm.

The trigger assembly and other parts of the firing mechanism are preset at the factory, and must never be altered or adizated.



WARNING: NEVER put your finger on the trigger unless you are going to fire the firearm.

THE BARREL

The inside of the barrel must be clean and free of obstructions.

- TO CHECK THE INSIDE OF THE BARREL:
- 1. Point the firearm in a safe direction.
- Engage the safety switch. Make sure the RED BAND IS NOT SHOWING.
- Pull the operating handle rearward and push it in to lock the bolt open.
- Remove the magazine from the firearm.
- Hemove the magazine from the firearm.
 Check the chamber to make sure it is empty.
- Insert a cleaning rod into the muzzle. Push the rod completely through the barrel until the rod can be seen in the ejection port.

TO REMOVE OBJECT FROM INSIDE THE BAR-REL:

WARNING: Never try to remove an object from the barrel by loading another cartridge and firing. This may cause the barrel to burst or a cartridge case to rupture and cause serious personal intery.

- Use the correct size cleaning rod.
- Insert the cleaning rod into the muzzle and lightly tap rod to free object.
- Push the cleaning rod all the way through the barrel, until the rod can be seen in the election port.
- If an object cannot be easily pushed out of the barrel with a cleaning rod, return the firearm to the sactory or a REMINGTON RECOMMENDED GUNSMITH.
- III TO CLEAN THE BARREL FOLLOW INSTRUC-TIONS SHOWN ON PAGE 10.

BEFORE LOADING THE FIREARM:

Make sure the inside of the barrel is free of dirt or other objects,

TO LOAD THE FIREARM

WARNING: This frearm is designed to use 22 'Long Rifle' cartridges only. Do not use any other 22 caliber ammunition, as this can cause a jam or severe gun maifunction and result in serflous personal injury.

TO LOAD THE CHAMBER AND MAGAZINE:

NOTE: The barrel should be cleaned before loading and firing the firearm the first time. Follow cleaning instructions shown on Page 10.

- 1. Point the firearm in a safe direction.
- 2. Engage the safety switch. RED BAND WILL NOT RHOW.



4. Push the magazine latch rearward.

Pull the magazine from the bottom of the firearm.
 Push the magazine follower button down. See Ploture 7.

 Push up to ten 22 'Long Rifle' cartridges one at a time into the magazine. Keep the bullets aligned toward the chamber. See Picture 7.

Replace the magazine into the firearm.
 Make sure the magazine is fully latched into post-

 Make sure the magazine is fully latched into position.
 Pull outward on the operating handle to unlock the

bolt.

1. Release the operating handle. The bolt will close and feed the first cartridge into the chamber. The fire-arm is now cocked, with the safety switch-engaged and the RED BAND NOT SHOWING. The red cocking indicator is clearly visible in the recess at the too rang of the receiver. See Picture 8.



THE CHAMBER AND MAGAZINE ARE NOW FUL-LY LOADED.

 To fire the firearm, disengage the safety switch. RED BAND WILL SHOW.

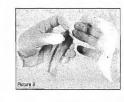
THE FIREARM IS READY TO FIRE.

The firearm will fire each time the trigger is puffed until the magazine and chamber are empty.
 The bolt will remain open after the last cartridge has been fired.

TO UNLOAD THE FIREARM:

- Point the finarm in a safe direction.
 Engage the safety switch. RED BAND WILL NOT SHOW.
- Push the magazine latch rearward and remove the magazine from the firearm.
- Pull the operating handle rearward to remove the partition from the pharmher.
- Continue to pull the operating handle rearward and push it in to look the bolt open.
- Side the cartridges forward and out of the magazine. See Ploture 9.
- The magazine may be placed back into the firearm. If the magazine is NOT in the firearm, the magazine disconnect will prevent the firearm from firing.

WARNING: Check the chamber and the magazine to make sure there are no cartridges in the firearm.



TO ADJUST THE SIGHTS

TO ADJUST THE REAR SIGHT

Move the rear sight in the same direction as you need to



NOTE: For more information on ballistics and trajectory, see the REMINGTON catalog.

TELESCOPIC SIGHTS

The top of the receiver has a scope rail for the installation of telescopic sights.

TARGET a. Loosen the elevation screw on the rear sight. b. Slide the rear sight down (backward) on the ramp. C. Tighten the slevation screw.

 \oplus

POSITION ON

 Loosen the elevation screw on the rear sight.
 Side the rear sight up (forward) on the ramp.
 Tighten the elevation screw.

ADJUSTMENTS:

Bullet hits below the center.

 a. Loosen the windage screw on the rear sight ramp.
 b. Side the rear sight aperture to the right.
 c. Tighten the windage screw.

Bullet hits to the left.

Loosen the windage screw on the rear sight,
 Side the rear sight aperture

to the left.
let hits to c. Tighten the windage screw.

CLEANING, LUBRICATION AND MAINTENANCE

WARNING: This firearm should be checked periodically by the Reminaton Arms Company, inc. or a REMING-TON RECOMMENDED GUNRMITH. This will insure proper inspection and any necessary replacement of worn or damaged parts.

NOTE. The chamber and bore should be cleaned before cading and firing the firearm the first time.



oughly wiped dry.

LUBRICATIONS

Over-lubrication should be avoided at all times. A thin coat of Rem." Oil helps to prevent rusting. See note below.

WARNING: Excessive use of a non-recommended by bricant could cause serious function problems possibly leading to acoldenta, firing.

When the firearm is to be stored, it should be carefully cleaned and thoroughly plied. Outside surfaces should be wiped with a light cost of Rem" Of occasionally.

When the firearm is to be reused, all excess lubrication must be removed. The chamber and hore must be there

The chamber and action must be cleaned periodically to prevent a misfire or our malfunction

NOTE: Remination Rem " Oil with DuPont Tellion", ubricant is available from your local dealer. If your dealer is out of stock, ask him to order Rem" Oil from his Reminator distributor.

TO CLEAN THE BARREL:

WARNING: Check the chamber and magazine to make sure there are no cartridges in the firearm.

NOTE: Open the action, lock the bolt open, and remove the manazine from the firearm

- 1. Use the instructions and equipment provided in a good cleaning lit. For recommendations, see your dealer or Reminoton Authorized Gunsmith.
- 2. Select the correct calber cleaning brush and attach the brush to the cleaning rod.
- 3 Put the cleaning brush into our cleaning solvent. 4. Push the clearing rod through the barrel severe.
- timee 5, Remove the brush from the rod, attach to with cleaning patch, and push through the bore.
- 5. Repeat several times, using a new cleaning patch each time until the patch is clean

WARNING: After cleaning, make sure the barrel is free of obstructions

TO DISASSEMBLE THE FIREARM FOR CLEANING CAUTION: The Model 522 Viner rifle should not be disas-

sembled beyond what is described in this instruction book, except by a qualified gunsmith.

TO DISASSEMBLE THE FIREARM FOR CLEANING:

WARN.NG: Check the chamber and magazine to make sure there are no partridges in the firearm. Always wear eye protection when disassembling and reassembling the firearm.

- Engage the safety switch. RED BAND WILL NOT SHOW.
- Pull the operating handle resoward and push it in to lock the bott open.
- the bolt open 3. Push the magazine latch rearward and remove the
- magazine from the firearm.

 4. Remove the front and rear takedown screws, using a 1/8" Alian Wranch. See Picture 11



5 Lift and remove the action from the stock.

NOTE: The action has two (2) major parts the receiver and the housing.

6 Slide the receiver rearward slightly to disengage it from the housing. See Picture 12

WARNING: Use extreme care when disassembling the receiver and housing as the bolt spring and firing pin spring are under tension. Wear eye protection to avoid serious personal injury.

 Rotate the receiver upward and slowly separate the receiver from the housing. See Picture 12



TO CLEAN THE RECEIVER/BARREL ASSSEMLY:

- Remove the bolt spring and firing pit spring.
 Slide the firing pin carrier assembly rearward and out of the receiver.
- Jirlock the operating handle and pull it fully rearward.
 Pull the operating handle upward and out of the receiv-
- 5 Side the breech boit rearward and out of the receiver.

CAUTION: Do not disassemble further.

- Brush the inside of the receiver and end of the barrel with gun oraning sovent and wipe dry. See Picture 13.
 Apply a thin cost of Rem[®] Off to the inside of the re-ceiver and on the sear olvet pin. See Picture 13.
- See Lubrication Warning on Page 10.



TO CLEAN THE HOUSING ASSEMBLY:

CAUTION: Clean the housing as a unit using Rem* Oil Do not remove any parts from the housing except as stated

 Slide the bolt spring guide and firing spring guide from the hub in the rear of the housing. See Picture 14



- Use a small brush and clean the inside of the housing thoroughly with cleaning solvent.
 Use a clean patch or rag to wice the housing plean and
- Apply a drop of Rem* Oil to the trigger pivot pin area.
 and safety switch spring hole. See Pictures 13 and 14.

TO CLEAN THE BREECH BOLT:

- 1. Clean the breech bolt using Rem* Oil.
- Clean the bolt including the bolt face and firing pin slot thoroughly and wise dry.
- Apply a drop of Rem " Oil behind the extractor, and in the firing pin slot.

TO CLEAN THE FIRING PIN/CARRIER ASSEMBLY:

1 Clean the firing phycarrier assembly with Rem" Oil and wipe dry See Jobication Warning on Page 10.

TO CLEAN THE MAGAZINE ASSEMBLY:

WARN NG: Check to make sure there are no certridges in the medazine box

 Side the magazine bottom forward and off of the magazine. As the spring becomes exposed, hold it with your thumb to prevent it from thing out.

WARN NG: Use extreme care when removing the magazine bottom, as the magazine spring is under tension. Wear eye protection to avoid serious personal histry.

- 2. Remove the magazine spring.
- Hemove the magazine spring.
 Remove the magazine follower.
- Clean the magazine and follower and wipe dry
 Reassemble the magazine follower into the magazine.
 Align the button on the magazine follower with the slot
- in the magazine 6. nsert the magazine with the
- colle aligned as shown See Picture 15, 7 Position the magazine bottom onto the magazine.
- Push the magazine spring into the magazine and hold securely
 Silde the magazine bottom rearward until the spring
 - Slide the magazine bottom rearward until the spring end snaps into the slot in the side of the magazine bottom.

WARNING: This finarm should be checked periodically by the Bomington Arma Co., Inc. or a REANINGTON REC-DMMENDED GUNSMITH. This will insure proper inspection and any necessary replacement of worn or temaged parts.



TO REASSEMBLE THE FIREARM:

WARNING: Check the chamber and magazine box to make sure there are no cartridges in the firearm.

CAUTION: Do not reassemble the finearm with the magazine box in place.

I. RECEIVER/BARREL ASSEMBLY:

- Slide the breech bolt into the receiver with the bolt face toward the barrel and the firing pin slot to the top so that it aligns with the rail in the top of the receiver.
- Rotate both sears so they do not block the breech bort,
 Slide the bolt forward until the operating handle hole in the bolt aligns with operating handle slot in the re-

- 4 insert the operating handle through the receiver and
- nto the breech bolt

 5 Size the breech bolt forward (means the barre).

NOTE: Breech bolt must slide freely in the receiver with operating handle assembled.

 Side the firing pin/carrier assembly into the receiver making sure that the firing pin aligns with and enters the firing pin sigt in the breach bolt.

NOTE; Rotate both sears so they do not block the firing pin-carrier assembly

 Piace the firing pin spring into the hole on the operating handle side of the carrier. See Picture 16.



8. Place the bolt spring through the other hole in the car rier and into the breech bolt. See Picture 18.

NOTE: The firing pin spring is Identified by RED color coded wire. This marks the spring to match the RED spring guide In the housing assembly and the RED firing pin carrier. When properly assembled, the springs will show approximately the same length.

HOUSING ASSEMBLY:

Place the RED spring guide into the slot in the right side of the hub at the rear of the housing
 Place the BLACK spring guide into the slot in the left side of the hub at the rear of the housing

NOTE: If you try to insert the spring guides in reverse order you will notice that the spring guides are different and will not assemble properly in the wrong slots.

III RECEIVER AND HOUSING:

 Align the receiver to the housing. Start the boil spring and the firing pin spring onto the spring guides. See Picture 17.



NOTE: Remember the 3-R's. The RED spring goes on the RED spring guide in the RIGHT side of the receiver.

 Slide the receiver rearward toward the housing until the rear of the receiver closes up on the hub on the housing.

NOTE: Start the receiver rearward at a slight angle to ensure that the sears clear the magazine guide and ejector. Use the receiver assembly ald to guide the receiver assembly into the housing assembly. See Picture 17.

CAUTION: If the receiver assembly aid is damaged or broien return the firearm to the factory or a REMINGTON RECOMMENDED GUNSMITH.

- To ensure that the secondary sear is functioning properly pull operating handle rearward 1/4 inch and release the handle. The firing pin carrier, when properly assembled, WILL NOT contact the rear of the bolt assemble. See Picture 18.
- The front of the receiver must lock into the notch in the housing. This will keep both assemblies together while you assemble the stock.

IV ACTION TO STOCK ASSEMBLY:

Assemble the action into the stock.

NOTE: The safety switch must be engaged. RED BAND

Picture 18
THESE PARTS MUST NOT CONTACT PRINCE PARTS MUST NOT CONTACT PRINCE PART ASSESSMENT

Insert the front and rear takedown screws,

NOTE: Longer takedown screw goes to the back of the trigger guard.

Tighten both screws, using a 1/8" Alen Wrench, until both screws are snug. Do not over-tighten.

 Pull the operating handle rearward and lock the bolt in the open position.

The magazine may be placed back into the firearm. If the magazine is NOT in the firearm, the magazine disconnect will prevent the firearm from firing.

HOW TO ORDER PARTS OR SERVICE FROM THE REMINGTON FACTORY

TO ORDER PARTS:

NOTE: Many Remington dealers carry a full line of parts.

- 1. Use the information on Pages 17 and 18 to find the
- correct part name and number.

 Write the model and serial number of your firearm, and the part name and number on the parts order.
 - Send or fax parts order to:
 Arms Service Division
 Remington Arms Company, Inc.

Ilion, New York 13357-1888

Parts Department: 315-895-7493 Parts Department Fax: 315-895-3659

 When calling an order in, please have your Visa or Mastercard ready. If you wish to pre-pay by check or money order, an exact quote will be given to you over the phone.
 Sorry, no C.O.D. is.

WARNING: Use only Remington parts in Remington fineering.

TO ORDER FACTORY SERVICE:

- Write a short description of the problem and include the model number, serial number and day time telephone number.
- Attach a copy to the firearm and another in an envelope on the outside of the box.

WARNING: Make sure gun and magazine are unloaded before shipping.

- Send by either United Parcel Service or Parcel
 Poet Ship manazine with the firearm.
- 4. Get insurance for the firearm.
 5. Record the serial number. It is required when call-
- ing factory to inquire if firearm has been received for repairs.

 8. Send firearms for factory service to: Arms Service Division
 - Remington Arms Company, Inc. Ilion, New York 13357-1888

Service Department: 315-895-7791 Service Department Fax: 315-895-3659

INSTRUCTION BOOKS AND GUNSMITH LIST:

To get an instruction book for any Remington firearm, a firearms safety booklet, and a list of recommended gurerniths, write to Remington Arms Company, Inc., Arms Sarying Didelon Illian New York (1357, Give the

model, serial number, gauge or calber.

AUT

MODEL 522 VIPER PARTS LIST

View Part Name

PARTS SUBJECT TO CHANGE WITHOUT NOTICE. FOB ILION, NEW YORK, View Part Name

No.	No.		No.	No.	
100	94964	Bolt Return Spring	20	97441	Magazine Bottom
2	94838	Bolt Spring Guide	21	104445	Magazine Box
	104205	Breach Bolt Assembly (Restricted)	22	94972	Magazine Follower
3	104200	Breach Bolt (Restricted)	23	94973	Magazine Spring
4	97275	Carrier Sear Stop (Restricted)	24	97716	Operating Handle
5	30306	Elevation Screw (Not Shown)	25	104185	Receiver/Barrel Assembly (Restricted)
6	104830	Extractor	26	97681	Rear Sight Aperture
7	97039	Extractor Plunger		104165	Rear Sight Assembly
8	97418	Extractor Spring	27	104160	Rear Sight Base
9	97043		28	28505	Rear Sight Base Screw
10	97012	Firing Pin Carrier (Restricted)	29	93904	Rear Sight Slide
	97020	Firing Pin Carrier Assembly	30	104210	Stock Assembly
11	97019	Firing Pin Retaining Pin (Restricted)	31	97820	Takedown Screw, Front
12	94965	Firing Pin Spring	32	97821	Takedown Screw, Rear
13	94839		33	90904	Windage Screw (Not Shown)
14	94927	Front Sight	The Page		
15	28505	Front Slaht Screw	100	1	
16	94931	Hold Open			NOTE: Restricted parts are for factor
17	97050	Hold Open Retainer Pin)	Installation only.
18	94933	Hold Open Return Spring			
19	104240	Housing Assembly Complete			
		(Restricted)		1	
	104215	Magazine Assembly (10 Shot)			